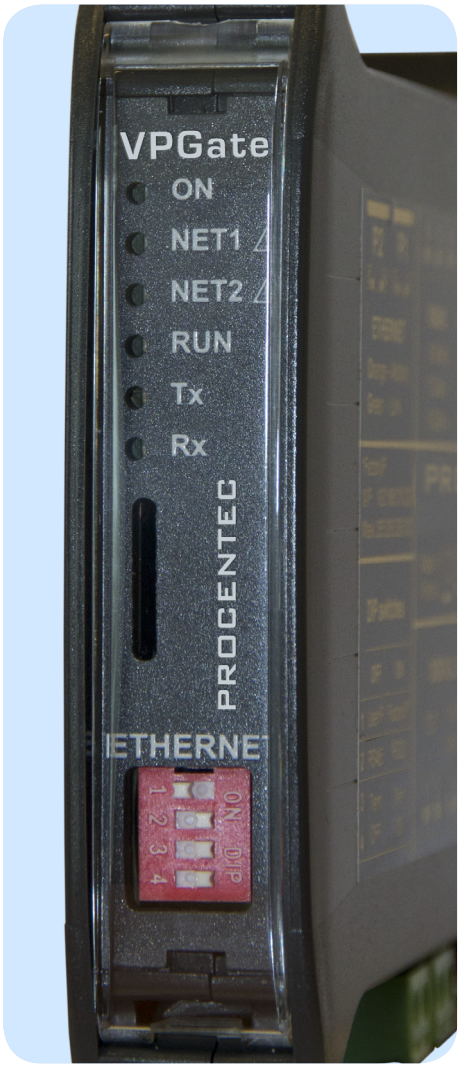
PROCENTEC



VPGate

Industrial Communication Gateways

VPGate

The VPGate product line is a series of gateways that enable you to connect any equipment very quickly and at low costs with a serial link to a network. We have VPGates available for PROFIBUS DP, PROFINET and Modbus TCP. All VPGates do not require any additional programming software tools.

VPGate allows for effective diagnostics via an integrated webpage or PROFIBUS and RS-232 diagnostic connections. The system also has diagnostic LEDs on the frontpanel. It supports Modbus RTU, ASCII and transparent mode. This opens up the gateway to support building, factory, process, or other types of automation. For example, HMI's and barcode scanners commonly use raw serial protocols which could be handled by transparent mode.

The VPGate is an economically attractive solution to enable integration in an existing network. Industrial Ethernet VPGates come with the option of a customized user manual (multiple languages) for large accounts or end users.

Compatible with Atlas

Atlas is the solution for monitoring and diagnosing Industrial Ethernet networks. The tool provides unique insight and knowledge of networks and an overview of the network health, with easy to use and understand displays. For more information about Atlas please see our website www.procentec.com/atlas.

Find the VPGate products that are compatible with our Atlas solution in the overview.

Your benefits

Design
- All gates accept RS-232 or RS-485
- Compact design
- I/O capabilities

Diagnostics
- Easy first level diagnostics
- Easy integrated web interface

Capabilities
- Support of MODBUS RTU, ASCII and transparant mode
- Indicators for easy first level diagnostic
- Termination and polarisation can be enabled/disabled on serial side
- No programming software tool required
- Customized web pages

... and more! Interested in a free demo?
Contact us at info@procentec.com

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VPGate

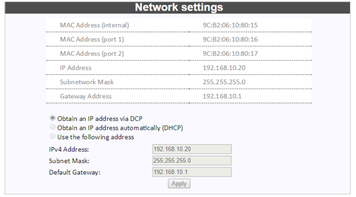
Family overview

	PROFIBUS DP to serial	PROFINET to serial	MODBUS TCP to serial
		Compatible with Atlas	Compatible with Atlas
Order code	**110-00011A**	**110-00012A**	**110-00013A**
Main side			
Connection	DB9 female connector	2 port / RJ-45	2 port / RJ-45
Protocols	PROFIBUS DP	PROFINET	MODBUS TCP
Features	PROFIBUS DP (DP V0, DP V1), sync, freeze, fail-safe	Auto-negotiation / auto-crossover / auto-polarisation / MRP-client	Auto-negotiation / auto-crossover / auto-polarisation
Operation mode	Slave	IO-Device / MODBUS server / MODBUS gateway	MODBUS client / MODBUS server / MODBUS gateway
Speed	9.6 Kbps .. 12 Mbps (auto detection)	10 / 100 Mbps	10 / 100 Mbps
Configuration method	GSD file via standardized configuration tool	GSD file via standardized configuration tool	Standard MODBUS program, web interface
Device access	Via PROFIBUS Master	HTTP (integrated webpage), FTP, SNMP v1	HTTP (integrated webpage), FTP, SNMP v1
I/O capabilities	1 input isolated 15 - 24 V 1 relay output 0,5A	1 input isolated 15 - 24V 1 relay output 0,5A	1 input isolated 15 - 24V 1 relay output 0,5A
Serial side			
Connection	Full duplex RS-232, half duplex RS-485 via PIN Connector	Full duplex RS-232, half duplex RS-485 via PIN Connector	Full duplex RS-232, half duplex RS-485 via PIN Connector
Protocols	MODBUS RTU or ASCII / transparant	MODBUS RTU or ASCII / transparent	MODBUS RTU or ASCII / transparent
Operation mode	MODBUS RTU or ASCII / transparant	MODBUS RTU or ASCII / transparent	MODBUS RTU or ASCII / transparent
Speed	1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 kbps	1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 kbps	1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 kbps
Data exchange	7 or 8 bits	7 or 8 bits	7 or 8 bits
Termination & polarisation	Configurable for RS-485	Configurable for RS-485	Configurable for RS-485
Supported functions	MODBUS: 1, 2, 3, 4, 5, 6, 7, 15, 16, 23 Transparent end of frame: End of frame character, known length, on time out	MODBUS: 1, 2, 3, 4, 5, 6, 7, 15, 16, 23 Transparent end of frame: End of frame character, known length, on time out	MODBUS: 1, 2, 3, 4, 5, 6, 7, 15, 16, 23 Transparent end of frame: End of frame character, known length, on time out
Others			
Power supply	10 .. 30 VDC @ 1.5 W	24 VDC @ 1.7 W	12 .. 30 VDC @ 1.7 W
Dimensions L x W x H	120 x 100 x 23 mm	120 x 100 x 23 mm	120 x 100 x 23 mm
Weight	130 g	130 g	130g
Operating temperature	0 .. 55 °C	0 .. 55 °C	0 .. 55 °C

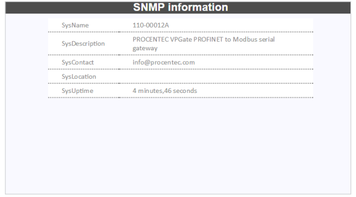
www.procentec.com/vpgate

Highlights

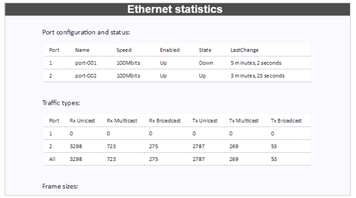
The screenshots below show the highlights of the VPGate interface. Particular attention is paid to the usability of that interface.



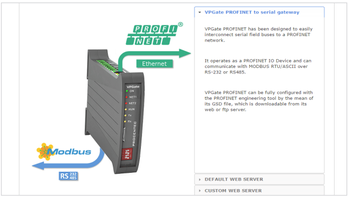
Easy setup and network connection overview



Integratable into third-party systems



Overview diagnostics for easy troubleshooting



Customizable web interfaces available for display of I/O and data

Complete service portfolio

PROCENTEC offers you a complete range of services to support you as a user or supplier of fieldbus technology. Our experts with their PROFIBUS and PROFINET knowledge excel within their field of work, so rest assured that you will receive the optimal solution.
We are an official PROFIBUS International Competence Center (PICC), in addition to a PROFIBUS International Training Center (PITC) and a PROFIBUS International Test Lab (PITL). A huge bundle of expertise is therefore at your disposal!

Support

Our PROCENTEC Support Engineers live to solve any network problem you might have. In case of emergency, call the support hotline: +31 (0)6 100 742 76. Our engineers are equipped with a wealth of specialist knowledge and all necessary tools. They will gladly help you with:

- On-site and online support
- Network audits
- Network certifications
- Consultancy
- Product certifications

Training

As a PITC we give training courses at our offices, though we also teach on-site anywhere in the world. Our goal is to give technicians that extra set of skills to professionally use PROFIBUS and PROFINET. Also supervisory staff can use the acquired knowledge to organize and execute projects more efficiently, so the system's entire life cycle is optimized. We offer the following courses:

- PROFIBUS or PROFINET Troubleshooting & Maintenance
- Certified PROFIBUS Installer
- Certified PROFIBUS (DP/ PA) or PROFINET Engineer

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